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Title: JP2001043893A2: WHOLE SOLID SECONDARY BATTERY AND ITS MANUFACTURE

Country: JP Japan

Kind: A2 Document Laid open to Public inspection

Inventor: KITAHARA NOBUYUKI;
KAMIMURA TOSHIHIKO;
MISHIMA HIROMITSU;
UMAGOME SHINJI;
OSAKI MAKOTO;
HARA TORU;
HIGUCHI HISASHI;

Assignee: KYOCERA CORP
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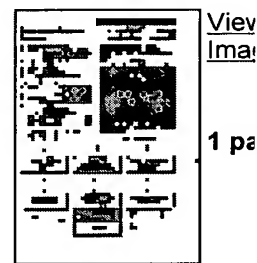
Abstract: PROBLEM TO BE SOLVED: To widen usable temperature range and improve energy density per weight of a battery by coating a battery element excluding a current collecting part with a heat resistant resin.

SOLUTION: A solid electrolyte 2 is interposed between a pair of positive electrode 1 and a negative electrode 3, current collectors 4, 5 are connected to the outsides of the electrodes 1, 3, current collector terminals 7, 8 are formed by working positive and negative current collectors 4, 5, covered or packed with an insulative case 9, and a battery element is coated with a heat resistant resin to form a coating outer case 6. As the heat resistant resin of the coating outer case 6, either one or composite resin selected from, for example, polyimide, polyhydantoin, polyamide imide, ester imide, heat resistant polyester and polyester is used. By coating the battery element excluding the current collecting terminal parts with the heat resistant resin, reliability on heat resistance and moisture resistance, for example, is enhanced, and a battery can be used in a wide temperature range.

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Family: None

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References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6586912	2003-07-01	Tsukamoto; Hisashi	Quallion LLC	Method and apparatus for amplitude limiting battery temperature spikes

Other Abstract
Info:

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KAMIMURA TOSHIHIKO
MISHIMA HIROMITSU
UMAGOME SHINJI
OSAKI MAKOTO
HARA TORU
HIGUCHI HISASHI**

(74) Representative:

**(54) WHOLE SOLID
SECONDARY BATTERY
AND ITS MANUFACTURE**

(57) Abstract:

PROBLEM TO BE SOLVED: To widen usable temperature range and improve energy density per weight of a battery by coating a battery element excluding a current collecting part with a heat resistant resin.

SOLUTION: A solid electrolyte 2 is interposed between a pair of positive electrode 1 and a negative electrode 3, current collectors 4, 5 are connected to the outsides of the electrodes 1, 3, current collector terminals 7, 8 are formed by working positive and negative current collectors 4, 5, covered or packed with an insulative case 9, and a battery element is coated with a heat resistant resin to form a coating outer

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